

EPID 278: Community-Driven Epidemiology and Environmental Justice

Schedule and Readings

Most readings are available online and are password protected. [Copyright laws](#) apply to journals in electronic format.

January 9

Topic: Introduction and Background

Speaker: Steve Wing

January 16

Topic: Conceptual and Methodological Overview

Speaker: Steve Wing

Assigned Readings:

Coughlin SS. Environmental justice: The role of epidemiology in protecting unempowered communities from environmental hazards. *Sci Tot Environ* 1996;184:67-76. (available [online](#))

Harding S. Introduction: Eurocentric scientific illiteracy -- A challenge for the world community. In: Harding S (Ed.). *The "racial" economy of science, toward a democratic future*. Bloomington, Indiana University Press. 1993.

Israel BA, Schulz AJ, Parker EA, Becker AB. Review of community-based research: Assessing partnership approaches to improve public health. *Annu Rev Public Health* 1998;19:173-202. (available [online](#))

January 23

Topic: Overview of Community Perspectives: Environmental justice movement in North Carolina

Speaker: Gary Grant, Executive Director, Concerned Citizens of Tillery (CCT)

Assigned Readings:

African American Environmental Justice Action Movement. *Defining the role and principles of lawyers and academicians in the environmental justice movement: A provisional document by the African American Environmental Justice Action Movement*. October 1997. (available [online](#))

Bullard RD. Race, Class, and the Politics of Place. In: Bullard RD. *Dumping in Dixie: Race, class, and environmental quality*. Boulder, CO: Westview. 1990. (available [online](#))

Jensen, Robert. "White privilege shapes the US." *Baltimore Sun*, 19 Jul 1998: C-1. (available [online](#))

Wing S, Grant G, Green M, Stewart C. Community based collaboration for environmental justice: south-east Halifax environmental reawakening. *Environment and Urbanization* 1996; 8(2):129-140.

January 30

Topic: Postal Workers, Anthrax Contamination and the Public Health Response

Speaker: Ajamu Dillahunt, President, NC Postal Workers' Union

Assigned Readings:

Alexander A. "Second-class postals." *The Nation*, 10 Dec 2001: 6. (available online through the UNC library database of [news sources](#), scroll down to and select "Newspaper Source Via NCLive - EBSCOHost", click on "Choose Databases", click on "MasterFILE Premier", search using the phrase "TI second-class postals" -- email Maria if you have any trouble with this)

Frerichs, Ralph. "American Anthrax Outbreak of 2001." UCLA School of Public Health.

<http://www.ph.ucla.edu/epi/bioter/detect/antdetect_intro.html>

Recommended Readings:

[American Postal Workers Union, AFL-CIO homepage](#)

February 6

Topic: Postal Workers, Anthrax Contamination and the Public Health Response: Research Design

Speaker: Robin Ryder, UNC Department of Epidemiology

Peter Gilligan, UNC Hospitals

Assigned Readings:

Meselson M, Guillemin J, Hugh-Jones M, Langmuir A, Popova I, Shelokov A, Yampolskaya O. The Sverdlovsk anthrax outbreak of 1979. *Science* 1994; 266(5188):1202-1207. (available [online](#))

CDC. [Anthrax Information \(General\)](#), and [Information for Lab and Health Professionals](#)

CDC. [Anthrax-related MMWR articles](#)

February 13

Topic: Landfills: Community Perspectives and the Holly Springs Experience

Speakers: Lynice Williams, NC Fair Share

Holly Springs residents

Assigned Readings:

NC Fair Share monograph: The Holly Springs Story.

Taylor D. Talking trash: the economic and environmental issues of landfills. *Environ Health Perspect* 1999;107:A404-9. (available [online](#))

February 20

Topic: Landfills: Research Design

Speakers: Kim Morland, U.S. Environmental Protection Agency
Steve Wing

Assigned Readings:

Vrijheid M. Health effects of residence near hazardous waste landfill sites: A review of epidemiologic literature. Environ Health Perspect 2000;108 Suppl 1:101-112. (available [online](#))

Paddle GM, Harrington JM. Environmental epidemiology--strengths and weaknesses. Int Arch Occup Environ Health 2000;73:7-14. (available [online](#))

February 27

Topic: Childhood Brain Cancer in Vance County, NC

Speakers: Mrs. Sylvia Allyn, Concerned Citizens of Vance County
Mrs. Mitzi Parrott, Concerned Citizens of Vance County
Ms. Barbara Arntsen, Concerned Citizens of Vance County
Mrs. Eva English, Concerned Citizens of Vance County

Assigned Readings:

Brown P. Popular epidemiology and toxic waste contamination: Lay and professional ways of knowing. J Health Soc Behav 1992;33:267-281 (available [online](#))

Pless-Mullooli T, Dunn CE, Bhopal R, Phillimore P, Moffatt S, Edwards J. Is it feasible to construct a community profile of exposure to industrial air pollution? Occup Environ Med 2000;57:542-549. (available [online](#))

Optional Readings:

Bunin G. What causes childhood brain tumors? Limited knowledge, many clues. Pediatr Neurosurg 2000; 32:321-6.

Bunin GR, Buckely JD, Boesel CP, Rorke LB, Meadows AT. Risk factors for astrocytic glioma and primitive neuroectodermal tumor of the brain in young children: a report from the children's cancer group. Cancer Epidemiol Biomarkers Prev 1994; 3:197-204.

Bunin GR, Kuijten RR, Boesel CP, Buckley JD, Meadows AT. Maternal diet and risk of astrocytic glioma in children: a report from the children's cancer group (United States and Canada). Cancer Causes Control 1994; 5:177-87.

Kuijten RR, Bunin GR. Risk factors for childhood brain tumors. Cancer Epidemiol Biomarkers Prev 1993; 2:277-88.

Kuijten RR, Bunin GR, Nass CC, Meadows AT. Parental occupation and childhood astrocytoma: results of a case-control study. Cancer Res 1992; 52:782-6.

March 6

Topic: Childhood Brain Cancer in Vance County, NC: Research Design

Speakers: Steve Wing, Beverly Rockhill, UNC EPID

Assigned Readings:

Legator M, Howells-Daniel AM. A deliberate smokescreen. Arch Environ Health 1994;49(3):154-155. (available [online](#))

Johnson BL, Lybarger J. ATSDR's response to Archives editorial: A deliberate smokescreen. Arch Environ Health 1994;49(5):312-313. (available [online](#))

Legator M, Howells-Daniel AM. Apology due to victims of study. Arch Environ Health 1994;49(5):314-315 (available [online](#))

Waller LA. A Civil Action and statistical assessments of the spatial pattern of disease: Do we have a cluster? Regulatory Toxicology and Pharmacology 2000;32:174-183.

March 13 Spring Break

March 20

Topic: Community Perspectives on Industrial Hog Production

Speaker: Elsie Herring, Duplin County, NC

Assigned Readings:

Snell, M. (2001). "Downwind in Mississippi: The struggle to keep a community from going to the hogs." Sierra Magazine (March/April): 22-26. (available [online](#))

Thu KM, Durrenberger EP. Introduction. In: Thu KM, Durrenberger EP (Eds) Pigs, Profits, and Rural Communities. Albany, NY: State University of New York Press, Albany. 1998.

March 27

Topic: Industrial Hog Production: Research Design

Speaker: Steve Wing, Maria Mirabelli

Assigned Readings:

Cole D, Todd L, Wing S. Concentrated swine feeding operations and public health: A review of occupational and community health effects. Environmental Health Perspectives 2000;108:685-699. (available [online](#))

Schiffman SS, Sattely EA, Suggs MS, Graham BG. The effect fo environmental odors emanating from commercial swine operations on the mood of nearby residents. Brain Research Bulletin 1995; 37(4): 369-75. (available [online](#)).

Wing S, Cole D, Grant G. Environmental injustice in North Carolina's hog industry. Environmental Health Perspectives 2000;108:225-231. (available [online](#))

Recommended Readings:

Wing S, Wolf S. Intensive livestock operations, health, and quality of life among eastern North Carolina residents. *Environmental Health Perspectives* 2000;108:233-238. (available [online](#))

April 3

Topic: Government Initiatives in Environmental Justice and Community-based Participatory Research

Speaker: Fred Tyson, National Institute of Environmental Health Sciences (NIEHS)

Assigned Readings:

NIEHS. Overview of the Translational Research Program at NIEHS. January 2001. (available [online](#))

Recommended Readings:

CDC Funding Announcement. [Community-based Participatory Prevention Research](#).

NIH Request for Applications: [Environmental Justice: Partnerships to address ethical challenges in environmental health](#).

NIEHS, Division of Extramural Research and Training, [Transitional Research Initiatives](#).

April 10

Topic: Ethical Issues in Community-based Environmental Health Research

Speaker: Rachel Avery, Maria Mirabelli, Steve Wing

Assigned Readings:

Wing S. Social responsibility and research ethics in community-driven studies of industrial hog production. *Environ Health Perspect* 2002; 110 (in press). (available [online](#))

Optional readings (from March 16th):

Legator M, Howells-Daniel AM. A deliberate smokescreen. *Arch Environ Health* 1994;49(3):154-155. (available [online](#))

Johnson BL, Lybarger J. ATSDR's response to Archives editorial: A deliberate smokescreen. *Arch Environ Health* 1994;49(5):312-313. (available [online](#))

Legator M, Howells-Daniel AM. Apology due to victims of study. *Arch Environ Health* 1994;49(5):314-315 (available [online](#))

April 17

Topic: MTBE contaminated drinking water, Pascoag, Rhode Island: A case study

Speaker: Lucy Peipins, Agency for Toxic Substances and Disease Registry (ATSDR)

Assigned Readings:

US Geologic Survey fact sheets. (available [online](#))

April 24

Student Presentations

May 1

Student Presentations

Updated: April 2002